

## CLAIMS

What is claimed is:

1. A liquid drug transfer system comprising:

a housing;

5 a port in said housing that received a container;

a delivery device that can be connected to the housing to receive a liquid from  
the container; and

an end of delivery indicator.

2. The liquid drug transfer system of Claim 1 wherein said end of delivery indicator

10 comprises a diaphragm.

3. A liquid drug transfer system comprising:

a housing;

a port in said housing that received a container;

a delivery device that can be connected to the housing to receive a liquid from

15 the container;

a pressurizing mechanism that pressurizes said container; and

a locking mechanism that prevents activation of said pressurizing mechanism  
before said container is inserted in said port.

4. A liquid drug transfer system comprising:

20 a housing;

a port in said housing that received a container;

a delivery device that can be connected to the housing to receive a liquid from the container;

a pressurizing mechanism that pressurizes said container; and

a locking mechanism to prevent activation of the pressurizing mechanism

5 when said device is not vertically oriented.

5. A liquid drug transfer system comprising:

a housing;

a port in said housing that received a container;

10 a delivery device that can be connected to the housing to receive a liquid from the container; and

wherein a predetermined volume of a liquid drug is delivered using a penetrating member having an adjustable height that pierces said container of liquid drug.

15 6. The liquid drug transfer system of Claim 5 wherein said penetrating member comprises a spike that is threadedly engaged with said housing.

7. A liquid drug transfer system comprising:

a housing;

a port in said housing that received a container;

20 a delivery device that can be connected to the housing to receive a liquid from the container; and

a support surface on said housing such that a user can insert said container with one hand while said housing is positioned with said support surface.

8. A liquid drug transfer system comprising:

a housing;

a port in said housing that received a container; and

a pen injector that can be connected to the housing to receive a liquid from

5 the container.

9. A method for transferring a liquid comprising:

inserting a container in a housing;

transferring a liquid in the container to a delivery device, said delivery device

having a penetrating member;

10 separating the delivery device from said housing; and

providing an end of delivery indicator.

10. The method of Claim 9 wherein said step of transferring the liquid comprises providing a syringe as said delivery device.

11. The method of Claim 9 wherein the step of providing an end of delivery indicator  
15 comprises using a diaphragm.

12. A method for transferring a liquid comprising:

providing a port in a housing;

providing a locking mechanism in said housing that prevents activation of a  
pressurizing mechanism before a container is inserted in said port;

20 inserting said container in said port of said housing;

actuating said pressurizing mechanism that pressurizes said container;

transferring a liquid in said container to a delivery device, said delivery device

having a penetrating member; and

separating the delivery device from said housing.

13. A method for transferring a liquid comprising:

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inserting a container in a housing;

providing a locking mechanism to secure the container in said housing;

transferring a liquid in the container to a delivery device, said delivery device

having a penetrating member; and

separating the delivery device from said housing.

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14. A method for transferring a liquid comprising:

inserting a container in a housing;

actuating a pressurizing mechanism that pressurizes said container;

transferring a liquid in the container to a delivery device, said delivery device

having a penetrating member;

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separating the delivery device from said housing; and

wherein a locking mechanism is provided to prevent activation of said  
pressurizing mechanism when said device is not vertically oriented.

15. A method for transferring a liquid comprising:

inserting a container in a housing;

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transferring a predetermined volume of a liquid drug by adjusting the height  
of a penetrating member which pierces the container of liquid drug into a drug  
delivery device; and,

separating the delivery device from said housing.